

Resin coating material for rubber and plastic - contains silicone rubber and solid lubricant

Patent Assignee: AKUROSU KK

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The resin coating material contains silicone rubber and solid lubricant. The solid lubricant includes mineral MoS₂, polytetrafluoroethylene, graphite, **boron nitride**, etc., and most pref. is polytetrafluoroethylene. The resin for the coating material includes polyurethane resin, hydroxyl gp.-contg.

fluororesin, urethane-modified epoxy resin, diglycidyl ester, silicone resin, etc. and preferred are polyurethane and silicone resins. The solid lubricant is used in 50 to 300, pref. 80 to 240 pts. wt. per 100 pts. wt. of resin. The coating material is prepared by diluting the resin with a solvent and dispersing silicone rubber and solid lubricant in the soln. For use, a hardener is added and the coating material is applied to rubber or plastic, followed by heat curing at 50-150deg.C for 30 to 60 minutes, pref. at 80 to 100deg.C, for 30 minutes in a film thickness of 5 to 50, pref. 10 to 15mum. Pref. hardener is polyisocyanate.

ADVANTAGE - The resin coating material improves friction and wear resistance of rubber and plastic products and is esp. useful for **weather strip**, oil seal, packing and wiper blade.